

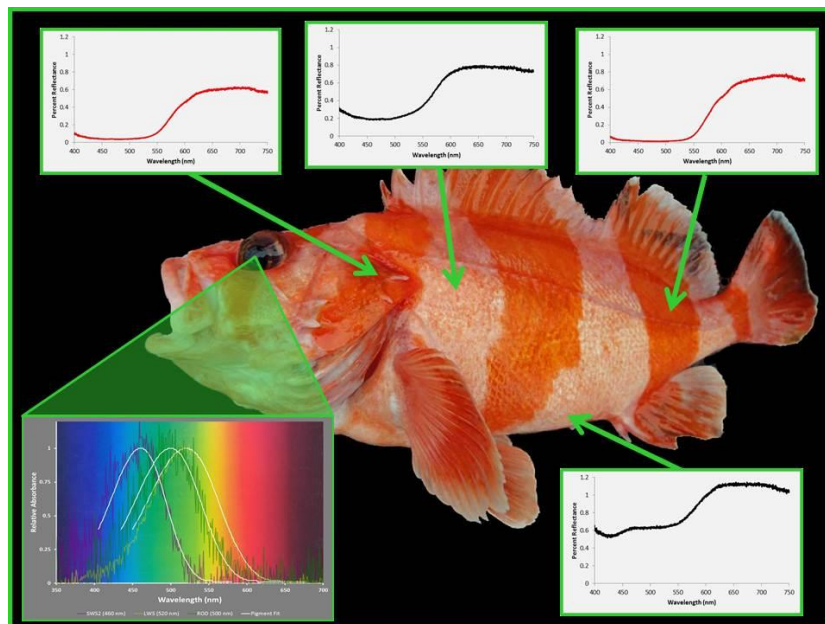
2016 GROUNDFISH SEMINAR SERIES

How can you take a picture of a rockfish without them knowing? Determining the spectral sensitivity and reflectance of S. California rockfishes

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MML Room 2039, Building 4



To aid in the development of underwater camera and lighting systems for assessment of deep water (>200m) demersal rockfish populations, two questions were addressed: (1) what is the spectral sensitivity of the species to be identified and (2) what are the spectral properties of the targets that the camera must be able to identify (in this case, rockfish body coloration patterns)?

Microspectrophotometry (MSP) and spectral reflectance techniques were used to describe the visual system of rockfishes and to model body coloration under different lighting options. Preliminary results outlining the visual system and spectral reflectance signature of 18 different species of rockfish collected in Southern California will be presented.